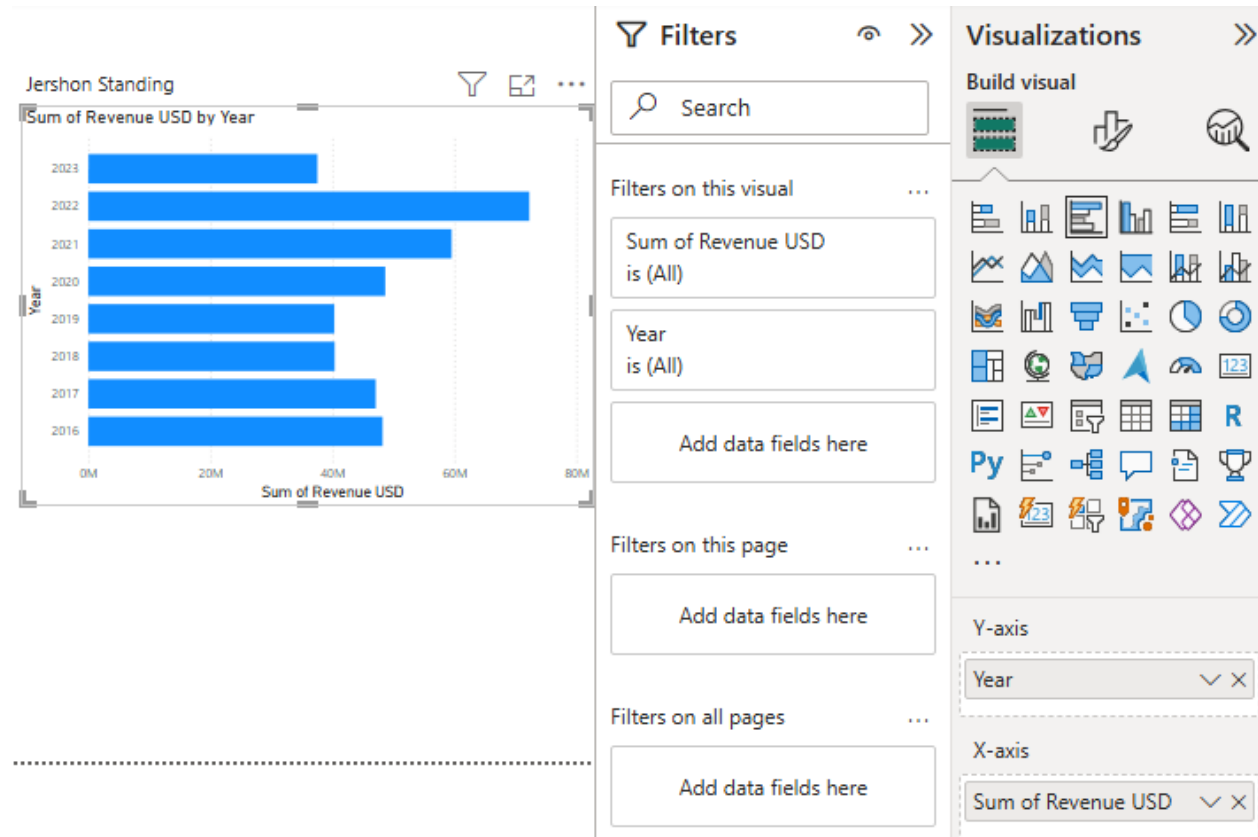# IS130 Business Analytics with MS Power BI

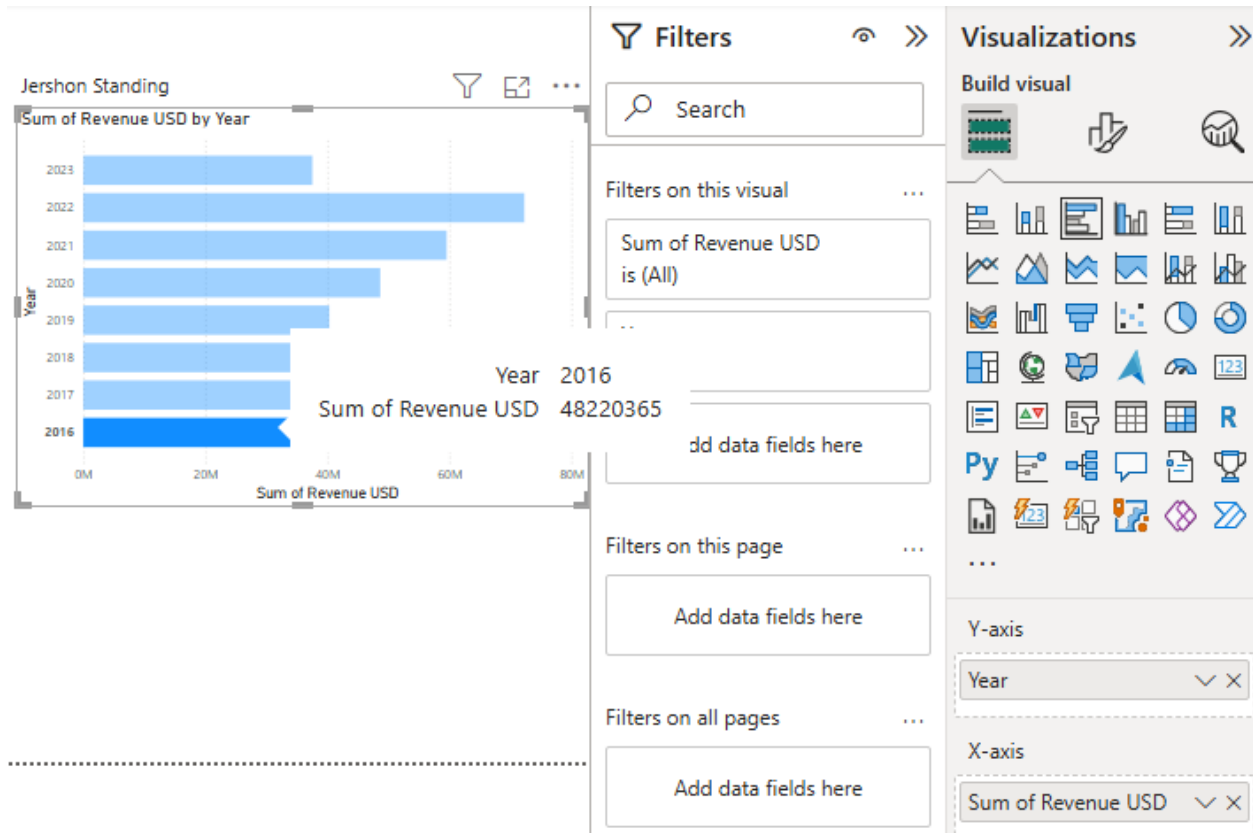Answer Sheet   Your name: Jershon Standing

1. Use a Bar Chart, graph Revenue USD (X-axis), Year (Y-axis). Which year has the lowest revenue USD?

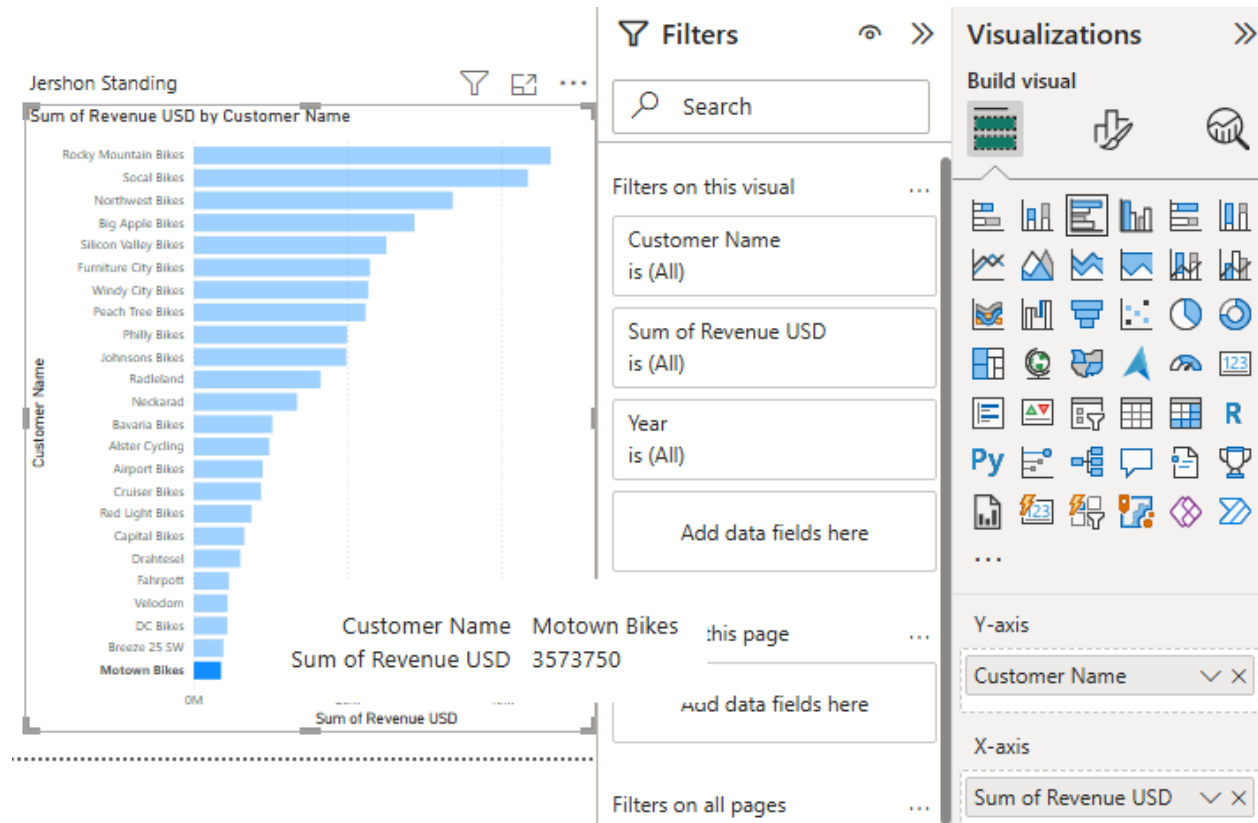The year with the lowest revenue USD is 2023 at $37,534,693.

2. Use a Bar Chart, how much revenue (in USD) did GBI receive in 2016?
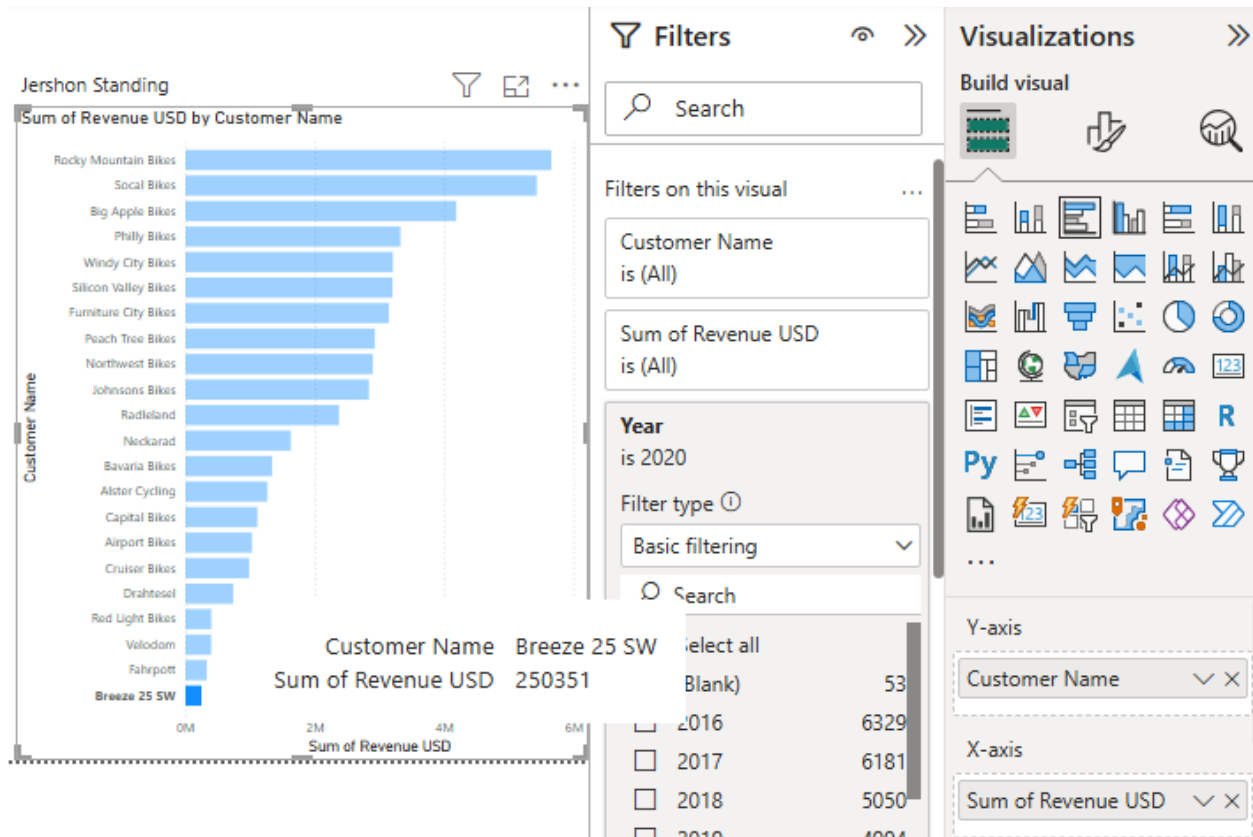
GBI received $48,220,365 of revenue in 2016.

3. Use a Bar Chart, how much revenue did GBI receive (in USD) from the lowest customer (use Customer Name)?

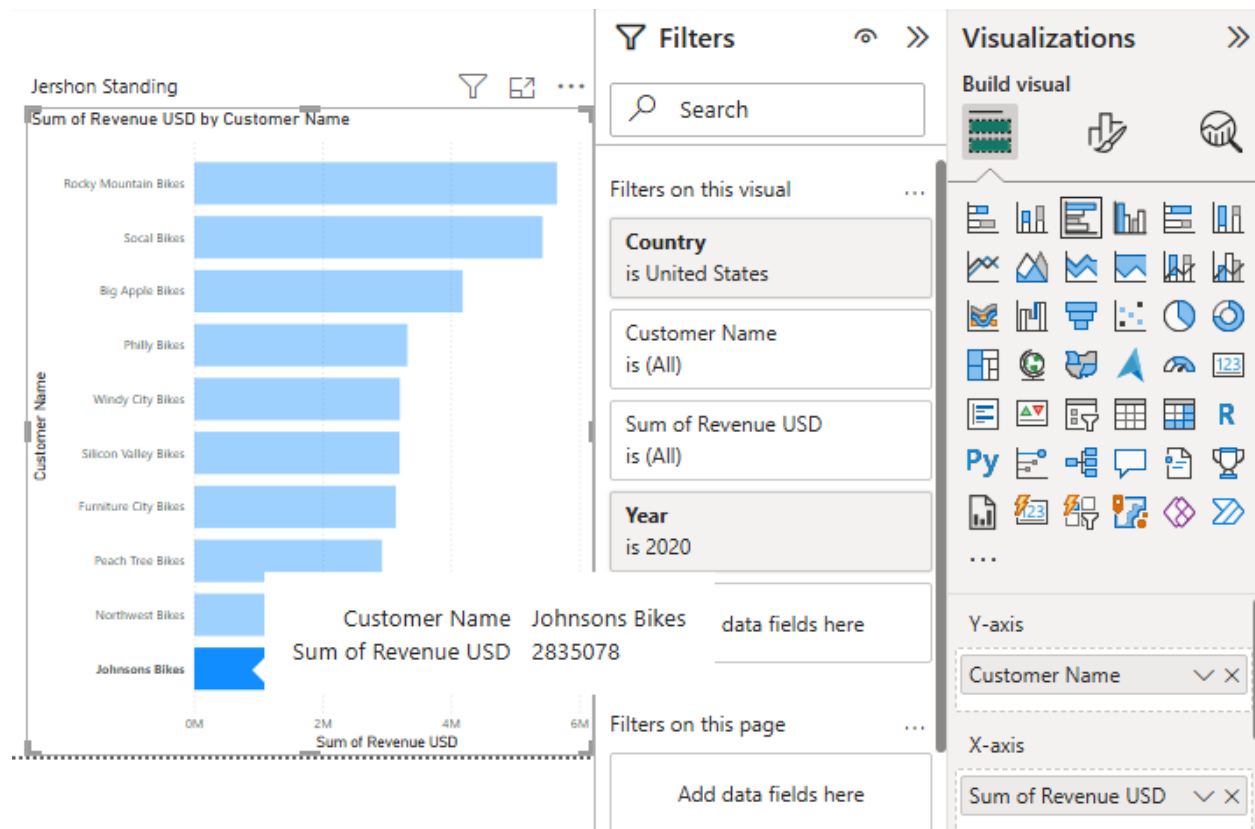GBI reveived $3,573,750 in revenue from their lowest customer, Motown Bikes.

4. Filter by year 2020. How much revenue (USD) did GBI receive from the lowest customer in 2020?

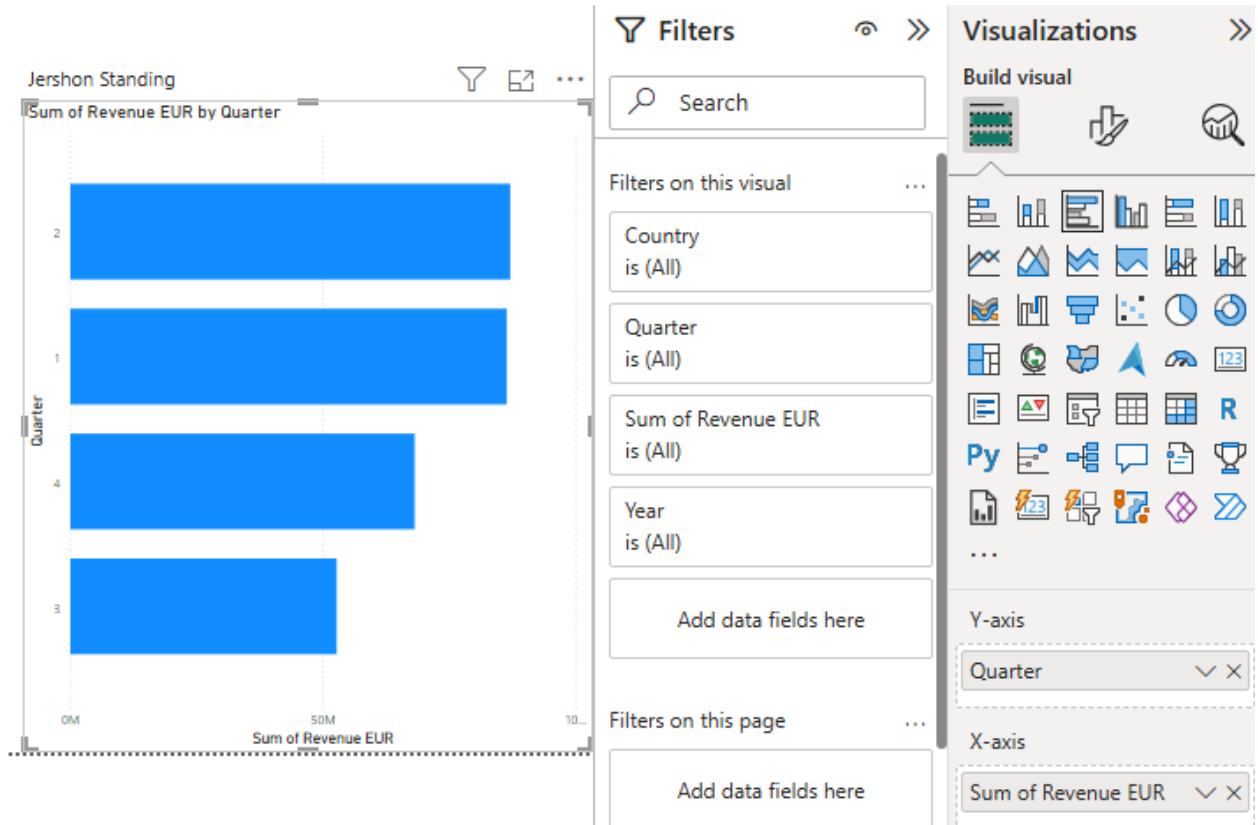GBI received $250,351 from the lowest customer in 2020, Breeze 25 SW.

5. Apply a second filter (country). How much revenue was received from the lowest customer in the US in 2020?

GBI received $2,835,078 from their lowest customer in the US in 2020, Johnsons Bikes.
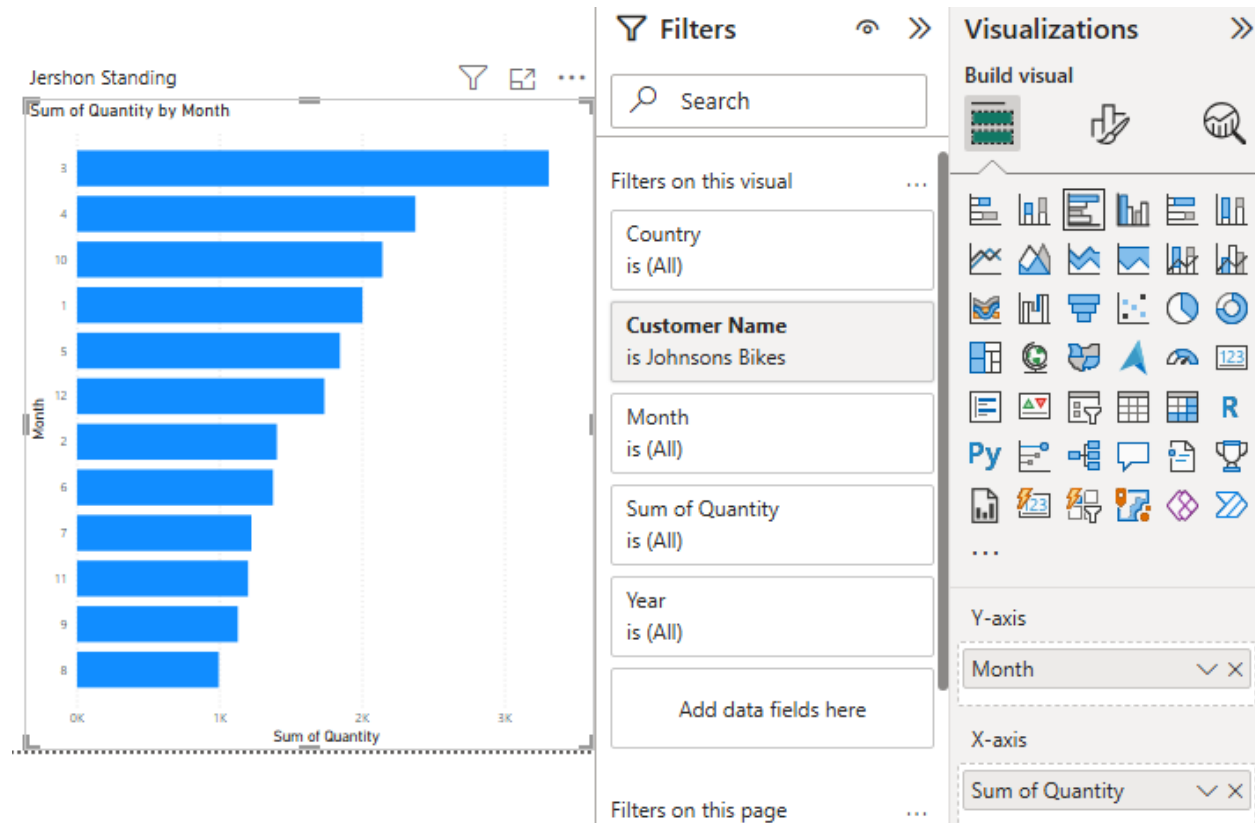
6. Which quarter has the lowest revenue EUR?

Quarter 3 has the lowest revenue EUR at €52,760,733.

7. Which month has the largest quantity for Johnsons Bikes? (Hint: Filter by customer name)

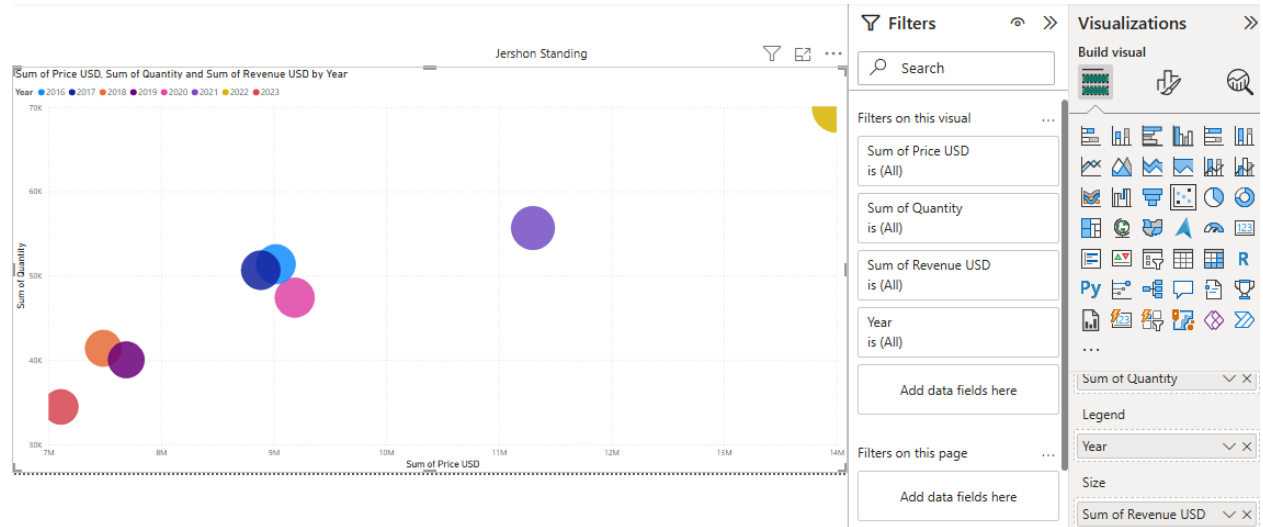March has the largest quantity for Johnsons Bikes.

8. Using a Line Chart, place Revenue (USD) in the Y-axis, Month in X-axis, and Material Master Description in Legend. Which material generated much more revenue in March than in February (filter by Material Group Description to focus only on Bikes)?

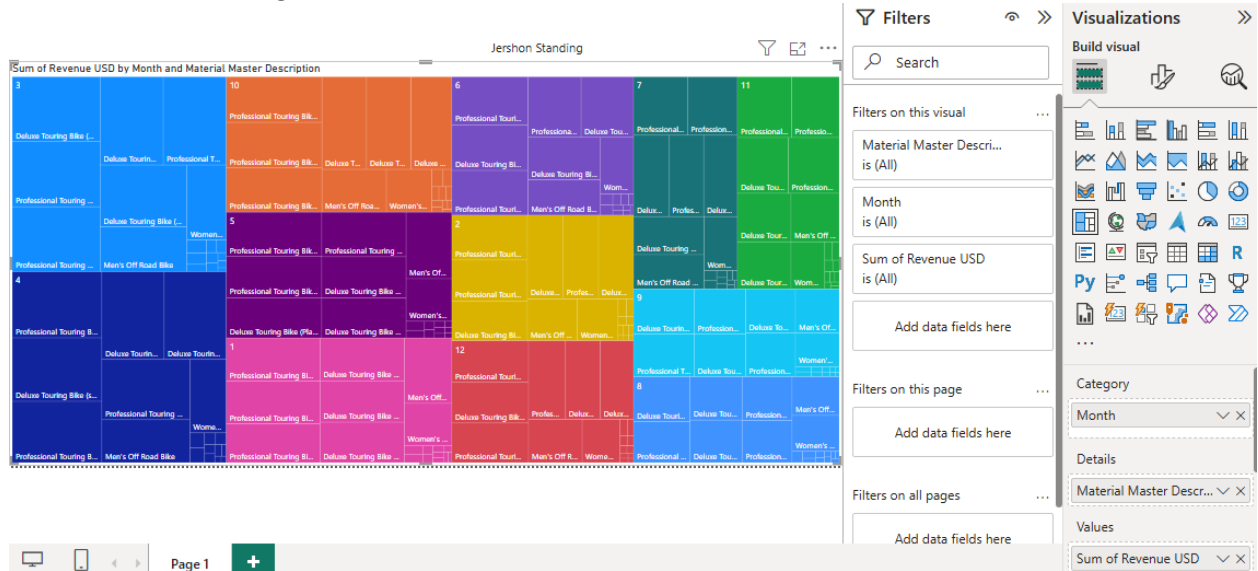Every material generated much more revenue in March than in February.

9. Use a Scatter (Bubble) Chart with Price USD (X-Axis), Quantity (Y-Axis), and Revenue USD as Measures (Size) and Year as Legend Color—what do you notice? Tip: Is there a correlation between the measures?

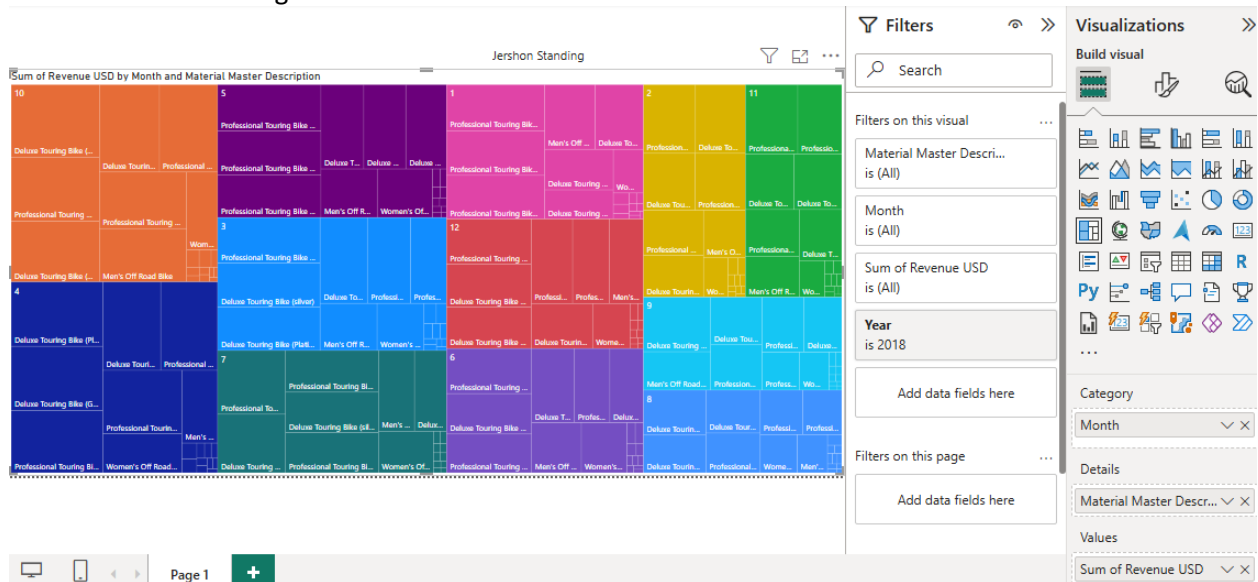A higher quantity is correlated with a higher price USD.

10. Use a Heat Map (Treemap) ⊞ of revenue USD (in values), month (in Category) and Material Master Description (in Details). What is the month with the highest revenue overall? What is the month with the highest revenue in 2018? Is there a reason why these months generate the highest revenue that you can think of?
The month with the highest revenue overall is March.

The month with the highest revenue in 2018 is October.

Months where weather is more suitable for cycling will see more sales for bicycles.

11. Challenge: Write your own question and create the chart that would answer the question.

Which percentage of total revenue does GBI make in each country?

About 74% of revenue is earned from the US, and 26% of revenue is earned from Germany.